

ETC EasyTraceCleaner® EVO II PC

**Decontamination and pre-conditioning device for all types of vessel.
Efficient, economic and reproducible.**



One tray included for many different vials, liners, tips for pipette and closures

Analab® offers devices for cleaning and decontamination by condensation of acid vapor for a wide variety of containers for the samples mineralization.

Material: PFA, PTFE, PP, quartz, glass etc...

Vessel: Digestion tubes, auto sampler vials, microwave liners, storage or sampling bottles, pipette tips, UV cups ...

Cleanliness, reproducibility, economy.

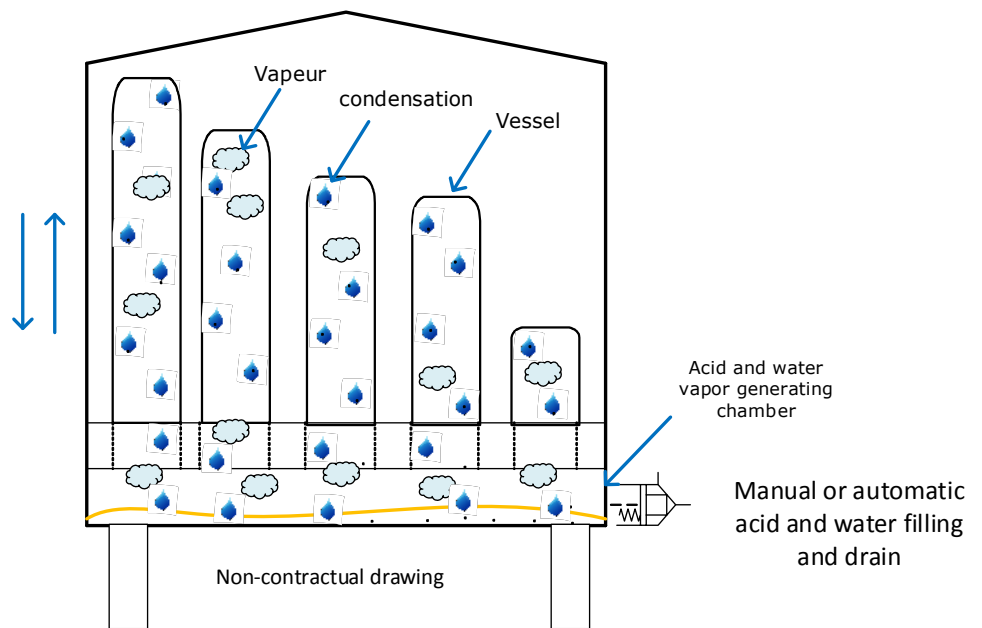
Our devices give you more reproducible sample preparation, security handling, savings for your budget.

Functioning

The decontamination procedure by heat, by steam condensate extremely pure acid, without interaction with the laboratory air, doesn't introduce contamination into the containers which are treated as the same way. It is ideal for the analysis of trace and ultra-trace elements.

Functioning principle:

The acid is heated below boiling point, ultra-pure vapor is channeled inward to containers, condenses on the tank's walls and flows downward to the bottom of the tank with the impurities. The acid purity is constant.



Principle:

The very pure acid vapor emitted from the bath, goes by convection inside the containers. By condensing on the inner wall of the containers, it dissolves the contaminants on the wall surface as well as in micro cracks. The droplets containing impurities come down by gravity into the tray. Contamination is then extracted and sequestered in the acid bath.

Once the cleaning by the acid is performed, a device can evacuate, either manually or automatically (optional system CRD), the cleaning reagent and replaces it with pure water or another reagent.

The water is heated, evaporated and purified the same way. It eliminates residual acids located on the surface of the containers.

After water is drained out of the tank, the drying is done automatically and without any additional contaminant (optional system CRD).

The duration of each cycle is 4 to 10 hours, depending on the shape and volume of the container.

The operating temperature of the ETC is 110 ° C (maximum).

Several acids can be run like HNO_3 , HCL etc... at of 10 to 25% max concentration in 400-600mL of water

Total safe handling

The operator doesn't need to introduce and remove repetitively acid reagent into the containers to be packaged. In addition, the reliability of the regulators allows intensive use, 24/7

Economy

ETC generates cost saving thanks to:

- 1- Small quantity of reagent (400 to 600 ml / 15 to 20 fl oz) is required
- 2- No need for high purity acid, since ETC continuously purify the acid
- 3- Both reagent and water could be recycled, preventing elimination/disposal cost.

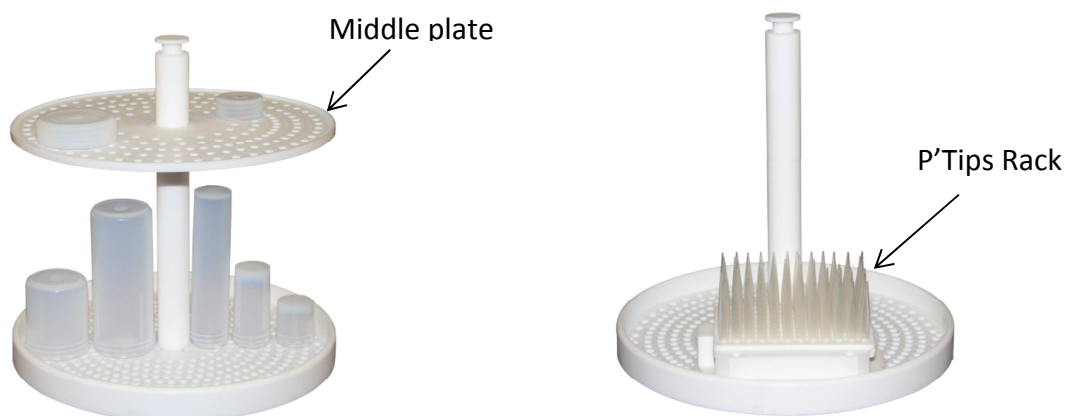
Produce very lower blanks – Save time – Reduce your consumable costs

Dimension of the ETC EVO II :

Diameter of the device : 330 mm

Total height of the device : 400 mm with lid

Optional :



Temperature controller

Analab has developed controllers to offer, reliability, performances and safety

REG-RNP = Non-Programmable Controller		
	110V	230V
	REG-RNP-ETC EVO II – 1V -110° (P116)	REG-RNP-ETC EVO II – 2V -110° (P116)

RNP: you can setup the T° and run until you switch off



OR

CRD (Clean-Rinse-Dry)

Self-contained device: the operator is not in contact with the reagent. He simply places the containers to be cleaned on the plate/basket and he just needs to remove them at the end of the cycle “washed-rinsed-dried”. With the automatic version (CRD-FA-W or CRD-FA-R), ETC could operate at night without operator and saves time.



Note: if you order a CRD, you don't need to order a controller, as is already included in the device.

